Appendix J. Schedule of Environmental Differentials Paid for Exposure to Various Degrees of Hazards, Physical Hardships, and Working Conditions of an Unusual Nature

PART I. PAYMENT FOR ACTUAL EXPOSURE

Differential rate	Category for which payable	$E_{ffective} \ date^{\ 1}$
100%	 Flying. Participating in flights under one or more types of the following conditions: a. Test flights of a new or repaired plane or modified plane when the repair or modification may affect the flight characteristics of the plane; b. Flights for test performance of plane under adverse conditions such as in low altitude or severe weather conditions, maximum load limits, or overload; c. Test missions for the collection of measurement data where two or more aircraft are involved and flight procedures require formation flying and/or rendezvous at various altitudes and aspect angles; d. Flights deliberately undertaken in extreme weather conditions such as flying into a hurricane to secure weather data; e. Flights to deliver aircraft which have been prepared for one-time flight without being test flown prior to delivery flight; f. Flights for pilot proficiency training in aircraft new to the pilot under simulated emergency conditions which parallel conditions encountered in performing flight tests; g. Low-level flights in small aircraft including helicopters at altitude of 500 feet and under in daylight and 1,000 feet and under at night when the flights are over mountainous terrain, or in fixed-wing aircraft involving maneuvering at the heights and times specified above, or in helicopters maneuvering and hovering over water at altitudes of less than 500 feet; h. Low-level flights in an aircraft flying at altitudes of 200 feet and under while conducting wildlife surveys and law enforcement activities, animal depredation abatement and making agricultural applications, and conducting or facilitating search and rescue operations; flights in helicopters at low levels involving line inspection, maintenance, erection, or salvage operations. 	Nov. 1, 1970

Differential rate	Category for which payable	Effective date ¹	
∀ 25%	 i. Flights involving launch or recovery aboard an aircraft carrier. j. Reduced gravity flight testing in an aircraft flying a parabolic flight path and providing a testing environment ranging from weightlessness up through 2 gravity conditions. 2. High work. 	Nov. 1, 1970	
1	a. Working on any structure at least 100 feet above the ground, deck, floor or roof, or from the bottom of a tank or pit;	•	
	b. Working at a lesser height:		
	(1) If the footing is unsure or the structure is unstable; or		
	(2) If safe scaffolding, enclosed ladders or other similar protective		
	facilities are not adequate (for example, working from a		
	swinging stage, boatswain chair, a similar support; or		
	(3) If adverse conditions such as darkness, steady rain, high		
	wind, icing, lightning or similar environmental factors render		
·	working at such height(s) hazardous.		
15%	Z. Floating targets. Servicing equipment on board a target ship or barge	TAT . 4 4070	
	in which the employee is required to board or leave the target vessel	Nov. 1, 1970	
	by small boat or helicopter.	Nov. 1, 1970	
4%	A. Dirty work. Performing work which subjects the employee to soil of	NOV. 1, 1970	
	body or clothing: a. Beyond that normally to be expected in performing the duties of		
	the classification; and		
	b. Where the condition is not adequately alleviated by the mechani-		
*	cal equipment or protective devices being used, or which are		
	readily available, or when such devices are not feasible for use		
	due to health considerations (excessive temperature, asthmatic		
	conditions, etc.), or		
	c. When the use of mechanical equipment, or protective devices, or		
	protective clothing results in an unusual degree of discomfort.		
14%	5. Cold work. Working in cold storage or other climate-controlled areas	Nov. 1, 1970	
	where the employee is subjected to temperatures at or below freezing	eliminot.	
2	(32 degrees Fahrenheit) where such exposure is not bractically the Hot work. Working in confined spaces wherein the employee is sub-	Non 1 1070	
4%	8. Hot work. Working in confined spaces wherein the employee is sub-	1900. 1,1970	
. ~	jected to temperatures in excess of 110 degrees Fahrenheit.	Nov. 1, 1970	
4%	Welding preheated metals. Welding various metals or performing an integral part of the welding process when the employee must work in	1, 1000.	
	confined spaces in which large sections of metal have been preheated		
•	to 150 degrees Fahrenheit or more, and the discomfort is not allevi-		
	ated by protective devices or other means, or discomforting pro-		
	A tective equipment must be worn.		
4%	8. Micro-soldering or wire welding and assembly. Working with binoc-	Nov. 1, 1970	
	ular-type microscopes under conditions which severely restrict the		
4	movement of the employee and impose a strain on the eyes, in the		
	1		
	components.	The Comment	
See footno	e at end of table.		
See tootio.	A practical hours word		
	protection devices percent		
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_	soldering or wire welding and assembly of miniature electronic components. e at end of table. or profest decices he was a factor of the control of the con		

$egin{aligned} Differential \ rate \end{aligned}$	Category for which payable		$E_{date\ ^{1}}^{Effective}$	
25%	 Exposure to hazardous weather or terrain. Exposure to dangerous conditions of terrain, temperature and/or wind velocity, while working or traveling when such exposure introduces risk of significant injury or death to employees; such as the following:	July	1, 1972	
25%	 tions, or sloping icepack covering the snow. Unshored work. Working in excavation areas before the installation of proper shoring or other securing barriers, or in catastrophe areas, where there is a possibility of cave-in, building collapse or falling debris when such exposures introduce risk of significant injury or death to employees, such as the following: Examples: —Working adjacent to the walls of an unshored excavation at depths greater than six feet (except when the full depth of the excavation is in stable solid rock, hard slag, or hard shale, or the walls have been graded to the angle of repose, that is, where the danger of slides is practically eliminated), when work is performed at a distance from the wall which is less than the height of the wall. —Working within or immediately adjacent to a building or structure which has been severely damaged by earthquake, fire, tornado or similar cause. 	July	1, 1972	

Differential rate	Category for which payable	Effective date ¹	
v ^{15%}	 Working underground in the construction and/or inspection of tunnels and shafts before the necessary lining of the passageway has been installed. Duty underground in abandoned mines where lining of tunnels or shafts is in a deteriorated condition. Ground work beneath hovering helicopter. Participating in operations to attach or detach external load to helicopter hovering just over- 	July 1, 1972	
15% ✓	head. **Hazardous boarding or leaving of surface craft. Boarding or leaving vessels or transferring equipment to or from a surface craft under adverse conditions of foul weather, ice, or night when sea state is high (three feet and above), and deck conditions and/or wind velocity in relation to the size of the craft introduce unusual risks to employees.	July 1, 1972	V
8%	Examples: — Boarding or leaving vessels at sea. — Boarding or leaving, or transferring equipment between small boats or rafts and steep, rocky, or coral-surrounded shorelines. — Transferring equipment between a small boat and a rudimentary dock by improvised or temporary facility such as an unfastened plank leading from boat to dock. — Boarding or leaving, or transferring equipment from or to ice covered floats, rafts, or similar structures when there is danger of capsizing due to the added weight of the ice. 18. Cargo handling during lightering operations. Off-loading of cargo and supplies from surface ships to Landing Craft—Medium (LCM) boats when swells or wave action are sufficiently severe as to cause sudden listing or pitching of the deck surface or shifting or falling of equipment, cargo, or supplies which could subject the employee to falls, crushing, ejection into the water or injury by swinging cargo hooks.	July 1, 1, 72	
15%	14. Duty aboard surface craft. Duty aboard a surface craft when the deck conditions or sea state and wind velocity in relation to the size of the craft introduces the risk of significant injury or death to employees, such as the following:	July 30, 1172	

Differential rate	Category for which payable	Effective date ¹
	 When embarking, disembarking or traveling in small craft (boa) on Lake Ponchartrain when wind direction is from north northeast of northwest, and wind velocity is over 15 knots; or when travel on Lake Ponchartrain is necessary in small craft, without radar equipment, due to emergency or unavoidable conditions and the trip is made in dense fog run procedures. Participating in deep research vessel sea duty wherein the team member is engaged in handling equipment on or over the side of the vessel when the sea state is high (12-knot winds and 3-foot waves) and the work is done on relatively unprotected deck 	
50%	Transferring from a ship to another ship via a chair harness hanging from a highline between the ships when both vessels are under way. — Duty performed on floating platforms, camels, or rafts, using tools equipment or materials associated with ship repair or construction activities, where swells or wave action are sufficiently severe to cause sudden listing or pitching of the deck surface or dislodgement of equipment which could subject the employee to falls, crushing, or ejection into the water. ***Mork at extreme heights. Working at heights 100 feet or more above the ground, deck, floor or roof, or from the bottom of a tank or pit on such open structures as towers, girders, smokestacks and similar structures: (1) If the footing is unsure or the structure is unstable; or (2) If safe scaffolding, enclosed ladders or other similar protective facilities are not adequate (for example, working from a swinging stage, boatswain chair, or a similar support); or (3) If adverse conditions such as darkness, steady rain, high wind, icing, lightning, or similar environmental factors render working at such height(s) hazardous.	Oct. 22, 1972
	26. Fibrous Glass Work. Working with or in close proximity to fibrous glass material which results in exposure of the skin, eyes or respiratory system to irritating fibrous glass particles or slivers where exposure is not practically eliminated by the mechanical equipment or protective devices being used.	Feb. 28, 1975 ←
50%	16. High Veltage Electrical Energy, Working on every electrical lines rated at 4160 volts or more who are suspended from utility poles or towers, who adverse weather conditions such as steady tens high winds, ieing. lightening, or similar environmental factors make the work number hazardons.	W]

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components

PART II. PAYMENT ON BASIS OF HOURS IN PAY STATUS

Differential rate	Category for which payable	Eff.	active
8%	 Duty aboard submerged vessel. Duty aboard a submarine or other vessel, such as a deep-research vehicle while submerged. Explosives and incendiary material—high degree hazard. Working with or in close proximity to explosives and incendiary material which involves potential personal injury such as permanent or temporary, partial or complete loss of sight or hearing, partial or complete loss of any or all extremities; other partial or total disabilities of equal severity; and/or loss of life resulting from work situations wherein protective devices and/or safety measures either do not exist or have been developed but have not practically eliminated the potential for such personal injury. Normally, such work situations would result in extensive property damage requiring complete replacement of equipment and rebuilding of the damaged area; and could result in personal injury to adjacent employees. Examples Working with, or in close proximity to operations involved in research, in testing, manufacturing, inspection, renovation, maintenance and disposal, such as: Screening, blending, drying, mixing, and pressing of sensitive explosives and pyrotechnic compositions such as lead azide, black powder and photoflash powder. Manufacture and distribution of raw mitroglycerine. Nitration, neutralization, crystallization, purification, screening and drying of high explosives. Manufacture of primery or initiating explosives and incendiary materials. Melting, cast loading, pellet loading, drilling, and thread clean ing of high explosives. Manufacture of primer or detonator mix. Loading and assembling high-energy output flare pellets. All dry-house activities involving propellants or explosives. Demilitarization, modification, renovation, demolition, and maintenance operations on sensitive explosives and incendiary materials. All operations involving	Nov.	1, 1970 1, 1970

Differential rate	Category for which payable	
4%	—Handling or engaging in destruction operations on an armed (or potentially armed) warhead. 3. Explosives and incendiary material—low-degree hazard. Working with or in close proximity to explosives and incendiary material which involves potential injury such as laceration of hands, face, or arms of the employee engaged in the operation and possible adjacent employees; minor irritation of the skin; minor burns and the like; minimal damage to immediate or adjacent work area or equipment being used. And there is protected to device and the form	Mar. 4, 1974 Nov. 1, 1970
	—All operations involving loading, unloading, storage and hauling of explosive and incendiary ordnance material other than small arms immunition (Distribution of raw nitroglycerine is covered under high degree hazard—see category 2 above.) —Duties such as weighing, scooping, consolidating and crimping operations incident to the manufacture of stab. percussion, and low energy electric detonators (initiators) utilizing sensitive primary explosives compositions where initiation would be kept to a tow order of propagation due to the limited amounts permitted to be present or handled during the operations. Load, assembly and packing of primers, fuses, propellant charges, load caps, boosters, and time-train rings. Weighing, scooping, loading in bags and sewing of ignitor charges and propellant zone charges. —Loading, assembly, and packing of hand-held signals, smoke	· for Snel
	signals, and colored marker signals. -Proof-testing weapons with a known overload of powder or charges. -Arming cisarming or the installation/removal of any squib, explosive device, or component thereof, connected to or part of a solid propulsion system, including work situations involving removal, inspection, test and installation of aerospace vehicle egress and jettison systems and other cartridge actuated devices and recket assisted systems or components thereof, when accidental or inadvertent operation of the system or a component	July 1, 1972 Mar. 4, 1974
8% ;	4. Poisors (toxic chemicals)—high degree hazard. Working with or in close proximity to poisons (toxic chemicals), other than tear gas or similar irritants, which involves potential serious personal injury such as permanent or temporary, partial or complete loss of faculties and/or loss of life including exposure of an unusual degree to toxic chemicals, dust, or fumes of equal toxicity generated in work situations by processes required to perform work assignments where n protective devices and/or safety measures have been developed out have not practically eliminated the potential for such personal injury.	Nov. 1, 1970

Differential rate	Category for which payable	$E_{ffective} \ date^{\ 1}$
4%.	 Operating various types of chemical engineering equipment in a restricted area such as reactors, filters, stripping units, fractioning columns, blenders, mixers, pumps, and the like utilized in the development, manufacturing, and processing of toxic or experimental chemical warfare agents. Demilitarizing and neutralizing toxic chemical munitions and chemical agents. Handling or working with toxic chemicals in restricted areas during production operations. Preparing analytical reagents, carrying out colorimetric and photometric techniques, injecting laboratory animals with compounds having toxic, incapacitating or other effects. Recording analytical and biological tests results where subject to above types of exposure. Visually examining chemical agents to determine conditions of detect leaks in storage containers. Salvaging and disposing of chemical agents. Poisons (toxic chemicals)—low degree hazard. Working with or in close proximity to poisons (toxic chemicals other than tear gas or similar irritating substances) in situations for which the nature of the work does not require the individual to be in as direct contact with, or exposure to, the more toxic agents as in the taxe with the work described under high hazard for this class of hazardous agents. Que Example Handling for shipping, marking, labeling, hauling and storing loaded containers of toxic chemical agents that have been monitored. Micro-organisms-high degree hazard. Working with or in close proximity to micro-organisms which involves potential personal injury such as death, or temporary, partial, or complete loss of faculties or ability to work due to acute, prolonged, or chronic disease. These are work situations wherein the use of safety devices and equipment, medical prophylactic procedures such as vaccines and equipment, medical prophylactic procedures do not exist or have been developed but have not practically eli	Nov. 1, 1976

See footnote at end of table.

have not practically eliminated the betautial for personal insury.

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rate	Category for which payable	Effective date ¹
4%	 Cultivating virulent organisms on artificial media, including embryonated her's eggs and tissue cultures where innoculation or harvesting of living organisms is involved for production of vaccines, toxides, etc., or for sources of material for research investigations such as antigenic analysis and chemical analysis. Micro-organisms—low degree hazard. Working with or in close proximity to micro-organisms in situations for which the nature of the work does not require the individual to be in direct contact with primary containers of organisms pathogenic for man, such as culture flasks, culture test tubes, hypodermic syringes and similar 	Nov. 1, 1970
→8%	instruments, and biopsy and autopsy material Action to the test conditions; or exposure which subjects an employee to a high degree of centrifugal force which subjects an employee to a high degree of centrifugal force which causes an unusual degree of discomfort. Examples:	July 1, 1972
	 Participating as a subject in diving research tests which seek to establish limits for safe pressure profiles by working in a pressure chamber simulating diving or, as an observer to the test or as a technician assembling underwater mock-up components for the test, when the observer or technician is exposed to high pressure gas piping systems, gas cylinders, and pumping devices which are susceptible to explosive ruptures. Participating in altitude chamber studies ranging from 18,000 to 150,000 feet either as subject or as observer exposed to the 	
	 same conditions as the subject. Participating as subject in centrifuge studies involving elevated G forces above the level of 5 G's whether or not at reduced atmospheric pressure. Participating as a subject in a rotational flight simulator in studies involving continous rotation in one axis through 360° at rotation rates greater than 15 r.p.m. for periods exexceeding three minutes. 	
8%	9. Work in fuel storage tanks. When inspecting, cleaning, or repairing fuel storage tanks where there is no ready access to an exit, under conditions requiring a breathing apparatus because all or part of the oxygen in the atmosphere has been displaced by toxic vapors or gas, and failure of the breathing apparatus would result in serious injury or death within the time required to leave the	July 1, 1972
4 6000	tank. 10. Firefighting. Participating or assisting in firefighting operations on the immediate fire scene and in direct exposure to the hazards	July 1, 1972

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<u> </u>	Differential rate			$E_{\it ffective} \ date^{-1}$	
Repetition of the second	Not by State of the state of th	9. Work in fuel storage tanks. When inspecting, cleaning, or repairing fuel storage tanks where there is no ready occess to an exit, under conditions requiring a breathing apparatus because all or part of the oxygen in the atmosphere has been displaced by toxic vapors or gas, and failure of the breathing apparatus would result in serious injury or death within the time required to leave the tank.	July	1, 1972	
Control	≯ 25%	 10. Firefighting. Participating or assisting in firefighting operations on the immediate fire scene and in direct exposure to the hazards inherent in containing or extinguishing fires. High degree —Fighting forest and range fires on the fireline. 	July	1, 1972	
	8%	Low degree —All other firefighting.			
	8%	11. Experimental landing/recovery equipment tests. —Participating in tests of experimental or prototype landing and recovery equipment where personnel are required to serve as test subjects in spacecraft being dropped into the sea or laboratory tanks.	July	1, 1972	
<u>ر</u>	8%	12. Land impact or pad abort of space vehicle. Actual participation in dearming and safing explosive ordnance, toxic propellant, and high-pressure vessels on vehicles that have land impacted or on vehicles on the launch pad that have reached a point in the countdown where no remote means are available for returning the vehicle to a safe condition.	July	1, 1972	
	4%	13. Mass explosives and/or incendiary material. Working within a controlled danger area in, on, or around wharves, transfer areas, or temporary holding areas in a transshipment facility when explosives are in the process of being shifted to or from a conveyance. Such an area shall include land and sea areas within which it has been determined that personnel are subject to an unusual degree of exposure or liability to serious injury or death from potential explosive effect. A transshipment facility for this purpose is a port or sea terminal established for the marshalling or temporary assembly of explosives prior to shipment where amounts in excess of 250,000 pounds net explosive weight (NEW) are present on a regular or	July	1, 1972	
	4%	recurring basis. 14. Duty aboard aircraft carrier Duty aboard an aircraft carrier when exposed to hazards connected with aircraft launch and recovery: Examples —Participating in carrier suitability trials aboard aircraft carriers when work is performed on the flight deck during launch, recovery and refueling operations.	July	1, 1972	

Differential rate	Category for which payable	$Effective\ date^{1}$	
	Operating or monitoring camera equipment adjacent to flight deck in the area of maximum hazard during landing se-		
8%	quence while conducting photographic surveys aboard aircraft carriers during periods of heavy aircraft operations. 15. Participating in mostle liquid propulsion or solid propulsion situations. Participating in research and development, or preoperational test and evaluation situations involving missile liquid or solid propulsion systems where mechanical, or other equipment malfunction, or accidental combination of certain fuels and/or chemicals, or transient voltage and current buildup on or within the system	Mar. 4, 1974	£
	when the system is in a "go" condition on the test stand, or sled, can result in explosion, fire, premature ignition or firing. Examples Test stand or track tests, when adequate protective devices and/or safety measures either do not exist or have been developed but have not practically eliminated the potential for personal injury, under any of the following conditions: a. Tanks are being pressurized above normal servicing		
	pressure b. Assembly, disassembly, or repair of contaminated plumbing containing inhibited red fuming nitric acid and unsymmetrical dimethylhydrazine or other hypergolic fuels is required. c. Fueling and defueling.		
	 Hoisting hypergolic liquid fueled systems into, or out of, a test stand, where the working area is confined, and external plumbing is present resulting in a situation where the plumbing may be damaged causing a leak. Tests on fore gn missiles where technical data is questionable or not available. 		
→ 8%	Manned test firings of small, close support missiles for which safety performance data are not yet available. Removal of a missile, missile propulsion system or component thereof from a test stand, fixture, or environmental chamber where there is reason to believe that the item may be unusually hazardous due to damage resulting from the test. 16. Asbestos. Working in an area where airborne concentrations of	Mar. 9, 1975 ←	10 A
,	asbestos fibers may expose employees to potential illness or injury and protective devices or safety measures have not practically eliminated the potential for such personal illness or injury.		

 $^{^{\}rm t}$ Effective date is beginning of first pay period on or after date specified.